

# Subject Index to Volume 36

## A

### Acetazolamide

effect on intrarenal oxygenation, F1059

### Acid-base homeostasis

intercalated cell type heterogeneity in cortical collecting ducts, F952  
possible role for liver: acidosis-inhibited hepatic amino acid transport, F1015

### Acid-base-related proteins

expression in mesonephric kidney, F987

### Acidosis

extracellular: minimizing of actin cytoskeletal changes during ATP depletion, F566  
inhibition of liver amino acid transport, and urea cycle role in acid-base balance, F1015  
metabolic  
ammonium production and ammonia-genic enzyme activity, F407  
and bicarbonate reabsorption by distal tubules, F737  
glutamine metabolism enzymes in kidney during, F400  
respiratory: effect on renal transport enzymes, F390

### Actin cytoskeleton

in cortical collecting duct cells: role in  $K^+$  channel activity, F592  
effect of  $pH_o$  during ATP depletion, F566

### Actin filaments

damage to, and detachment of proximal tubular cells: consequences for renal function, F888

### Activator protein-1

antagonism by all-*trans* retinoic acid in glomerular mesangial cells, F805

### Adenosine

nitrobenzylthioinosine-sensitive: uptake by kidney cells: regulation of, F758  
renal interstitial: estimation by microdialysis, F174

### Adenosine 5'-triphosphate

extracellular:  $[Ca^{2+}]_o$  increase from: role of nucleotide receptor, F998  
inhibition of arginine vasopressin hydrosmotic effect: evidence for nucleotide  $P_{2u}$  receptor, F289

### Adenosine $A_1$ receptor

blockade: effects on glomerular hemodynamics: role of renin-angiotensin system, F783

### Adenosine 3',5'-cyclic monophosphate

in cortical collecting duct  
effects on  $[Ca^{2+}]_i$ , F354  
generation in immature duct, F44

### Adhesion molecules

CD11a and CD11b: role in ischemic renal failure, F1052

### $\beta$ -Adrenergic receptors

and sodium transport in kidney proximal tubule cells, F725  
subtype expression and distribution in MDCK cells, F347

### Aging

and long-term enalapril: effects on glomerular function, F35

### Alanine cotransport

$Na^+$ -coupled: proximal tubule adaptive responses, F479

### Albuminuria

and glomerular permselectivity in FHH spontaneously hypertensive rat, F917

### Aldosterone

inner medullary collecting duct resistance: induction by TGF- $\beta$ 1, F767  
role in renal response to hyper- and hypocalcemia, F390

### Alkalosis

respiratory: effect on renal transport enzymes, F390

### Amino acids

hepatic transport: inhibition in acidosis: import for urea cycle role in acid-base balance, F1015  
infusion effect on renal hemodynamics in humans: dose-response study, F703

### Aminopeptidase A

in kidney: molecular sequence and cellular location, F546

### Ammonia transport

in model of proximal tubule, F237

### Ammoniogenic enzymes

activity in proximal tubule S1 segment after metabolic acidosis, F407

### Ammonium

renal production  
and enzyme activity in proximal tubule S1 segment after metabolic acidosis, F407  
enzyme distribution in kidney during  $NH_4Cl$  acidosis, F400  
renal transport: role of  $Na^+-K^+-ATPase$  in medullary collecting duct, F660

### Angiotensin I-converting enzyme inhibitors

dissociation of antiproteinuric and antihypertensive effects, F1034  
enalapril effect on glomerular function in FHH spontaneously hypertensive rat, F917

### Angiotensin II

see also Renin

in cortical collecting duct: regulation of  $H^+-ATPase$  activity, F1045  
and renal vasoconstriction from cyclosporin, vs. endothelin-A and thromboxane  $A_2$ , F443

### Angiotensin II receptors

renal colocalization with glutamyl aminopeptidase (aminopeptidase A), F546  
in renal epithelial basolateral and brush-border membranes, F776

### Anions

extracellular: role in renal renin secretion, F1076

### Antihypertensive therapy

and age-related glomerular dysfunction, F35

### L-Arginine

in renal injury and repair: role of cytokines (review), F197  
in health and renal disease (review), F331

metabolism: interaction between nitric oxide synthase and arginase, F646

### Arginine vasopressin

see also Vasopressin

effect on  $Na^+$  and water transport in salt-resistant vs. Sprague-Dawley rats, F583  
inhibition by ATP: evidence for nucleotide  $P_{2u}$  receptor, F289  
juxtamedullary microvascular responses to, F249

### Arginine vasopressin-stimulated cAMP generation

in immature renal cortical collecting duct, F44

### Arterioles

renal afferent  
anatomic pairing, renin distribution, and internephron functional coupling, F931  
blood flow autoregulation in juxtamedullary nephrons, F879

### Atrial natriuretic factor

see also Atriopeptin III

receptor localization in kidney, F215, F318

sinorphan effects on, F20

### Atrial natriuretic peptide receptors

mRNA ontogeny in fetus, F825

### Atriopeptin III

effect on intrarenal oxygenation, F1063

### Autoregulation

of afferent arteriolar blood flow in juxtamedullary nephrons, F879  
renal: nonlinear modeling in, F160

## B

### Barrier function

osmotic, of parietal peritoneum, F861

### Betaine transporter gene (GBT-1)

response to temperature stress, F28

### Bicarbonate

see also Chloride/bicarbonate exchange

reabsorption in distal tubules: adaptation during acid loading, F737  
transport in mesonephric collecting tubule, F979

### Bone

remodeling: chronic intermittent loading: effect on mechanosensitive channels in osteoblast-like cells, F909

### Bradykinin

mesangial cell contraction from, via  $B_2$  receptor type, F871

### Brush-border membranes

and regulation of nitrobenzylthioinosine-sensitive adenosine uptake by kidney cells, F758  
of renal cortex: tyrosine protein kinase activity in, F415  
of renal epithelium: angiotensin II receptors, F776

renal sodium-phosphate cotransporter: and dietary  $P_i$ : adaptation mechanisms, F900

**Bumetanide**

effect on intrarenal oxygenation, F1059

**C****Calcitonin**

cAMP-dependent effects on  $[Ca^{2+}]_i$  in cortical collecting duct, F354

**Calcitonin gene-related peptide**

effects on renal vascular resistance and endothelin-1 vasoconstriction, F839

**Calcium**

see also **Sodium-calcium**

concentration in renal mitochondria: relation to pH, F153

intracellular

effects of vasopressin and calcitonin in cortical collecting duct, F354

in medullary collecting ducts: nucleotide-mediated increase: role of nucleotide receptor, F998

role in volume regulation in medullary collecting duct cells, F130

**Calcium channel blockers**

natriuresis from: role of renal dopamine  $D_1$  receptors, F965

**Calcium channels**

T-type: effect of intracellular  $Ca^{2+}$ , F183

**Calmodulin-dependent protein kinase**

and activation of T-type  $Ca^{2+}$  channels, F183

**cAMP, see Adenosine 3',5'-cyclic monophosphate****Carbon dioxide**

ambient: effect on acidification in cortical collecting duct, F114

**Carbonic anhydrase**

expression in mesonephric kidney, F987

**Catecholamines**

effect on sodium transport in kidney proximal tubule cells, F725

**Cation channels**

nonselective, in inner medullary collecting duct, F558

stretch-activated, in osteoblast-like cells: effect of chronic intermittent loading, F909

**CD11/CD18 adhesion molecules**

role of CD11a and CD11b in ischemic renal failure, F1052

**Cell differentiation**

stage and expression of vitamin  $D_3$  24-hydroxylase gene in intestinal epithelia, F926

**Cell-matrix interactions**

abnormalities in polycystic kidney epithelial cells, F1082

**Cell volume regulation**

in medullary collecting duct cells

$Ca^{2+}$  release and influx during, F130

role of nonselective cation channels, F558

under hypertonic conditions, F13

in proximal tubule: adaptive responses to  $Na^+$ -solute cotransport and swelling, F479

in proximal tubule cells:  $Na^+$ - $K^+$ -2 $Cl^-$  cotransport, F63

**CHIP28**

and water channels in proximal tubule cells, F709

**Chloride**

see also **Sodium-potassium-chloride cotransport**

ambient: effect on nitric oxide release by mesangial cells, F190

vasopressin-activated conductance, in cortical collecting duct cells, F831

**Chloride/bicarbonate exchange**

distribution in cortical collecting duct and intercalated cell type, F952

**Chloride channels**

in renal proximal tubule cells: diverse modulations, F716

and vasopressin-activated  $Cl^-$  conductance in cortical collecting duct cells, F831

**Cholesterolemia**

transforming growth factor- $\beta$  expression in glomerular macrophages, F937

**Collagen type IV**

gene expression in mesangial cell: stimulation by protein kinase C and glucose, F632

morphine effect on gelatinolytic activity of mesangial cells, F654

**cpk mouse**

11 $\beta$ -hydroxysteroid dehydrogenase and *Ke 6* genes, and renal cystogenesis, F791

**C-type natriuretic peptide**

mRNA localization in kidney, F215

**Cyclooxygenase II**

mRNA stabilization in renal mesangial cells, F504

**Cyclooxygenase inhibitors**

effect on PGE $_2$ -inhibited Na-K-ATPase, F94

**Cyclosporin A**

renal vasoconstriction from: possible mechanisms, F443

**Cystic fibrosis transmembrane conductance regulator**

and vasopressin-activated  $Cl^-$  conductance in collecting duct, F831

**Cytokines**

in renal disease (review), F197

**Cytoskeleton**

microtubular, in renal epithelial cells: effect of ischemia and reperfusion, F971

**D****Deoxycorticosterone**

effect on  $Na^+$  and water transport in salt-resistant vs. Sprague-Dawley rats, F583

**Dexamethasone**

effect on renal  $Na^+/H^+$  antiporter activity and isoform mRNA, F437

**Diabetes**

glucose-induced upregulation of myo-inositol transport, F459

nephropathy

altered expression of insulin-responsive glucose transporter GLUT4, F816

glucose stimulation of collagen type IV gene in mesangial cell, F632

hyperfiltration, and juxtaglomerular microvascular dysfunction, F99

radiocontrast-induced kidney failure: role of nitric oxide, F374

renal hypertrophy in: role of TGF- $\beta$ 1, F1094

**Dietary components**

protein: restriction in renal disease, F197

sodium: restriction and renin-angiotensin system, F281

**Diltiazem**

natriuresis from: role of renal dopamine  $D_1$  receptors, F965

**Diuretics**

effects on intrarenal oxygenation, F1059

**Dopamine**

prostaglandin  $E_2$ -like effect on Na-K-ATPase, F94

**Dopamine  $D_1$  receptors**

in kidney: role in natriuresis from calcium channel blockers, F965

**E****Electrolytes**

intracellular: response to hypertonicity, F13

**Enalapril**

and age-related glomerular dysfunction, F35

effect on glomerular barrier function and proteinuria in FHH spontaneously hypertensive rat, F917

renal effect during sodium restriction, F281

**Endopeptidase blockade**

renal effects in humans, F20

**Endosomes**

acidification after vasopressin-induced water-channel endocytosis, F106

renal cortical

fusion assay and evidence for superfusion, F1021

heavy fraction: intermicrovillar cleft attributes, F516

**Endothelial cells**

renal: sites of endothelin-1 gene expression in human, F679

vascular: cellular distribution of endothelin-1 binding in rat kidney in vivo, F845

**Endothelin-1**

cellular distribution in kidney in rat in vivo, F845

ET $_A$  receptor and renal vasoconstriction from cyclosporin, vs. angiotensin II and thromboxane  $A_2$ , F443

sites of gene expression in human kidney, F679

vasoconstriction from: effects of calcitonin gene-related peptide, F839

**Endotoxin**

effect on renal distribution of inducible nitric oxide synthase mRNA, F748

**Epithelial cells**

glomerular

natriuretic peptide receptor subtypes in, F318

plasminogen/plasmin receptors on, F303

intestinal

differentiation stage and expression of vitamin  $D_3$  24-hydroxylase gene, F926

in polycystic kidney

abnormal cell-matrix interactions, F1082

renal

microtubule network: effect of ischemia and reperfusion, F971

renal papillary

*Shaker*-like  $K^+$  channels, F671

renal tubular  
 integrins: subtypes and ligand specificities, F612  
 recovery from mechanical injury, F257

## Epithelium

renal  
 basolateral and brush-border membranes: angiotensin II receptors, F776  
 nitric oxide synthase in, F296

## Ethacrynic acid

effect on intrarenal oxygenation, F1059

## Extracellular matrix

interaction with polycystic kidney epithelial cells, F1082

## F

### F-Actin, see Actin filaments

### Fetus

atrial natriuretic peptide receptors:  
 mRNA ontogeny, F825  
 maturation of proximal tubule  $\text{Na}^+/\text{H}^+$  antiporter, F537  
 mesonephros collecting tubule  
 hydrogen and bicarbonate transport in intercalated-like cells, F979  
 intercalated-like and principal-like cells, F987  
 renal epidermal growth factor receptor tyrosine kinase activity, F428

### Fish

renal Na-P, cotransport system in flounder, F311  
 transepithelial phosphate secretion in flounder renal tubular cells, F624  
 urine acidification in elasmobranchs: possible role of  $\text{H}^+/\text{K}^+$ -ATPase, F639

### Furosemide

effect on intrarenal oxygenation, F1059

## G

### Gestation, see Fetus; Newborn

### Glucocorticoids

effect on renal  $\text{Na}^+/\text{H}^+$  antiporter activity and isoform mRNA, F437  
 in renal cystogenesis, and coordinate regulation of  $11\beta$ -hydroxysteroid dehydrogenase and *Ke 6* genes, F791

### Glucose

stimulation of collagen type IV gene expression in mesangial cell, F632

### Glucose cotransport

$\text{Na}^+$ -coupled: proximal tubule adaptive responses, F479

### Glucose transporters

GLUT4 (insulin-sensitive): altered expression in experimental diabetes mellitus, F816

### Glutamate dehydrogenase

activity in proximal tubule S1 segment after metabolic acidosis, F407  
 renal distribution during  $\text{NH}_4\text{Cl}$  acidosis, F400

### Glutaminase

phosphate-dependent  
 activity in proximal tubule S1 segment after metabolic acidosis, F407  
 renal distribution during  $\text{NH}_4\text{Cl}$  acidosis, F400

### Glutamine metabolism enzymes

mRNA distribution in kidney during  $\text{NH}_4\text{Cl}$  acidosis, F400

### Glutamine synthase

renal distribution during  $\text{NH}_4\text{Cl}$  acidosis, F400

### Glutamyl aminopeptidase

in kidney: molecular sequence and cellular location, F546

### G proteins

in renal medulla: colocalization and regulatory interaction with  $\text{H}^+$ -ATPase, F944  
 role in regulation of proximal tubule  $\text{Na}^+/\text{K}^+$ -ATPase in normal vs. spontaneously hypertensive rat, F1069

### Growth factors

hepatocyte  
 effects in renal collecting duct cells, F271  
 expression in renal hypertrophy and hyperplasia, F231  
 platelet-derived  
 thrombin-induced gene expression: role of tyrosine phosphorylation, F528  
 renal epidermal  
 effect of growth hormone on, F208  
 receptor activity in developing fetal kidney, F428

### Growth factors, transforming

TGF- $\beta$   
 in macrophages: increased expression during hypercholesterolemia, F937  
 in renal disease, F197  
 TGF- $\beta$ 1  
 role in diabetic renal hypertrophy, F1094  
 role in inner medullary collecting duct resistance to mineralocorticoids, F767

### Growth hormone

effect on renal epidermal growth factor, F208

## H

### Heat shock proteins

HSP-70: effect of osmotic stress on expression, F28

### Heat stress

effect on renal betaine transporter gene (GBT-1), F28

### Henle's loop, see under Kidney

### Heroin nephropathy

morphine effect on mesangial matrix metalloproteinase, F654

### Hydrogen

see also Sodium/hydrogen  
 and regulation of renin system (review), F1

secretion in mesonephric collecting tubule, F979

### Hydrogen-ATPase

in cortical collecting duct  
 effect of nitric oxide, F509  
 regulation by angiotensin II, F1045  
 in renal medulla: colocalization and interaction with G proteins, F944  
 role in collecting duct acidification, F450

### Hydrogen-potassium-ATPase

possible role in elasmobranch renal acid secretion, F639  
 role in collecting duct acidification, F450

### $11\beta$ -Hydroxysteroid dehydrogenase and *Ke 6* genes

coordinate regulation in *cpk* mouse, and renal cysts, F791

### 25-Hydroxyvitamin $\text{D}_3$ 24-hydroxylase

potentiated intestinal gene expression in uremia, F926

### Hypercapnia

effect on renal transport enzymes, F390

### Hypertension

angiotensin I-converting enzyme inhibitors: dissociation of antihypertensive and antiproteinuric effects, F1034  
 and localization of kallikrein-binding protein in, F325  
 sodium and water transport, in collecting ducts of salt-resistant vs. Sprague-Dawley rats, F583  
 proteinuria and impaired glomerular permselectivity in FHH spontaneously hypertensive rat, F917  
 proximal tubule  $\text{Na}^+/\text{K}^+$ -ATPase: regulation by G proteins in normal vs. spontaneously hypertensive rat, F1069

### Hypertonicity

effect on cell volume and inorganic electrolytes, F13

### Hypocapnia

effect on renal transport enzymes, F390

### Hypotension

effect on intrarenal oxygenation, F1063

## I

### Insulin

effect on Na-K-ATPase in proximal convoluted tubule, F55  
 effect on NaCl transport in Henle's thick ascending limb, F265  
 leucine-induced secretion: abnormalities in chronic renal failure, F853

### Integrins

in human renal cortical tubule epithelial cells: subtypes and ligand specificities, F612  
 role in abnormal cell-matrix interactions in polycystic kidney epithelial cells, F1082

### Interleukin $1\beta$

role in cyclooxygenase II mRNA stabilization in mesangial cells, F504

### Intestine

epithelial cells: differentiation stage and expression of vitamin  $\text{D}_3$  24-hydroxylase gene, F926

### Ischemia

effect of  $\text{pH}_i$  on actin cytoskeleton during ATP depletion, F566  
 renal, and regeneration of sodium-potassium-ATPase polarity, F75

### Ischemia-reperfusion, renal

effect on epithelial cell microtubule network, F971  
 kidney failure from: role of adhesion molecules CD11a and CD11b, F1052

### Isradipine

natriuresis from: role of renal dopamine  $\text{D}_1$  receptors, F965

## K

**Kallikrein-binding protein**

localization in kidney, F325

**Ke 6 and 11 $\beta$ -hydroxysteroid dehydrogenase genes**coordinate regulation in *cpk* mouse, and renal cysts, F791**Kidney**

afferent arterioles

anatomic pairing, renin distribution, and internephron functional coupling, F931

allograft, chronic rejection: physiological and structural features, F1102

atrial natriuretic peptide receptors:

mRNA ontogeny in fetus, F825

autoregulation: nonlinear modeling in, F160

*see also* **Kidney, tubuloglomerular feedback**

betaine transporter gene (GBT-1): response to temperature stress, F28

cellular distribution of endothelin-1 binding in rat in vivo, F845

collecting ducts

AQP-CD (WCH-CD) water channel: function and cellular location, F573

collecting ducts, cortical

axial heterogeneity in intercalated cell types and H<sup>+</sup>/HCO<sub>3</sub><sup>-</sup> secretion, F952effect of 10% CO<sub>2</sub> on luminal acidification, F114H<sup>+</sup>-ATPase activity in: regulation by angiotensin II, F1045

immature: mediators of defective response to arginine vasopressin, F44

immature: sodium transport in, F49

Na<sup>+</sup> and water transport: in salt-resistant vs. Sprague-Dawley rats, F583nitric oxide effect on H<sup>+</sup>-ATPase activity, F509vasopressin and calcitonin effects on [Ca<sup>2+</sup>]<sub>i</sub>, F354

collecting ducts, medullary

H-K-ATPase and H-ATPase in luminal acidification, F450

hormonal regulation of mitogen-activated protein kinase, F366

localization of kallikrein-binding protein in, F325

natriuretic peptide receptor subtypes in, F318

NH<sub>4</sub><sup>+</sup> transport mediated by Na<sup>+</sup>-K<sup>+</sup>-ATPase, F660

nonspecific cation channels in apical membrane, F558

nucleotide-mediated [Ca<sup>2+</sup>]<sub>i</sub> increase: role of nucleotide receptor, F998

collecting tubules, cortical

ATP inhibition of arginine vasopressin hydromotric effect in, F289

collecting tubules, medullary

G proteins and H<sup>+</sup>-ATPase: colocalization and regulatory interaction, F944

cortex

basolateral and brush-border membranes: angiotensin II receptors in, F776

blood flow: effects of hypotension, F1063

heavy endosomes from: intermicrovillar cleft attributes, F516

development: epidermal growth factor receptor tyrosine kinase activity in fetal kidney, F428

endothelin-1 gene expression: sites in human, F679

epithelium: nitric oxide synthase in, F296

functional reserve: amino acid infusion effect on renal hemodynamics: dose-response study, F703

glomerular filtration rate: amino acid infusion effect on renal hemodynamics: dose-response study, F703

glomerulus

effects of aging and long-term enalapril, F35

hemodynamics: A<sub>1</sub> receptor blockade effects: role of renin-angiotensin system, F783

hemodynamics in cell-free and erythrocyte-perfused isolated kidney, F423

increased macrophage TGF- $\beta$  expression during hypercholesterolemia, F937

permeability and proteinuria in FHH spontaneously hypertensive rat, F917

glucocorticoid effect on Na<sup>+</sup>/H<sup>+</sup> antiporter activity and isoform mRNA, F437glutamine metabolism enzymes: mRNA distribution during NH<sub>4</sub>Cl acidosis, F400

glutamyl aminopeptidase (aminopeptidase A): molecular sequence and cellular location, F546

Henle's loop, thick ascending limb

insulin-stimulated NaCl transport in, F265

K<sup>+</sup> channels in, F599K<sup>+</sup> transport in, F121hyperplasia, hypertrophy, and regional expression of hepatocyte growth factor/*c-met*, F231

inducible nitric oxide synthase mRNA: localization by in situ hybridization, F748

internephron communication: anatomic pairing of afferent arterioles and renin cell distribution, F931

interstitium: estimating adenosine and purine metabolites by microdialysis, F174

intrarenal oxygenation determinants effects of diuretics, F1059

hemodynamic effects, F1063

ischemia, and regeneration of sodium-potassium-ATPase polarity, F75

juxtamedullary microvessels

dysfunction in diabetic hyperfiltration, F99

responses to arginine vasopressin, F249

juxtamedullary nephrons: autoregulation of afferent arteriolar blood flow in, F879

medulla

blood flow: effects of hypotension, F1063

hypoxia: role of medullary reabsorptive work, F1059

impaired osmolyte accumulation in potassium depletion, F139

role of vasopressin receptors in osmolyte accumulation, F146

mesonephros collecting tubule

hydrogen and bicarbonate transport in intercalated-like cells, F979

intercalated-like and principal-like cells, F987

microvessels: method for isolation and mRNA localization, F497

renal osmotic stress-induced Na<sup>+</sup>-Cl<sup>-</sup>-organic solute cotransporter, F688

renin secretion: differential effects of extracellular anions, F1076

sodium/calcium exchanger: human isoform expression in insect cells, F70

sodium-phosphate cotransporter: adaptation to dietary P<sub>i</sub> changes: cellular mechanisms, F900

sodium-potassium cotransport system: analysis in flounder, F311

transport enzymes: effect of hyper- and hypocalcemia on, F390

tubules

macula densa: role in renin secretion, F1076

metabolism in: as intrarenal oxygenation determinant, F1059

natriuresis from calcium channel blockers: role of dopamine D<sub>1</sub> receptors, F965

tubules, distal

adaptation of bicarbonate reabsorption during acid loading, F737

tubules, proximal

adaptive responses to Na<sup>+</sup>-solute cotransport and swelling, F479

ammonia transport in mathematical model, F237

endosomal fusion: energy transfer assays and evidence for superfusion, F1021

insulin effect on Na-K-ATPase in, F55

lithium transport by, F86, F695

Na<sup>+</sup>/H<sup>+</sup> antiporter: maturation from fetus to newborn, F537Na<sup>+</sup>-K<sup>+</sup>-ATPase regulation by G proteins: in normal vs. spontaneously hypertensive rat, F1069pH<sub>o</sub> effect on actin cytoskeleton during ATP depletion, F566

potassium transport by, F695

S1 segment ammoniagenic enzyme activity after metabolic acidosis, F407

sodium transport by, F695

tubuloglomerular feedback

ambient Cl<sup>-</sup> and mesangial nitric oxide release, F190

detecting interaction with myogenic mechanisms, F160

role in autoregulation of afferent arteriolar blood flow in juxtamedullary nephrons, F879

role of nitric oxide, F606

and tubular reabsorption during acute potassium loading, F223

tyrosine protein kinase activity in brush-border and basolateral membranes, F415

urine acidification in elasmobranchs: possible role of H<sup>+</sup>-K<sup>+</sup>-ATPase, F639



vascular resistance: effects of calcitonin gene-related peptide, F839  
vasoconstriction

from cyclosporin A: possible mechanisms, F443  
effects of nitric oxide synthesis inhibition on: changes with sodium intake, F798  
vasodilation: effect on medullary oxygen availability, F1063

### Kidney cells

adenosine uptake, nitrobenzylthioinosine-sensitive: regulation of, F758  
collecting duct, cortical  
  role of actin cytoskeleton in  $K^+$  channels, F592  
  vasopressin-activated chloride conductance in, F831  
collecting duct, inner medullary  
  aldosterone resistance induced by TGF- $\beta$ 1, F1767  
collecting duct, medullary  
  ATP-sensitive  $K^+$ -selective channels, F489  
   $Ca^{2+}$  release and influx during volume regulation, F130  
  cell volume and electrolytes response to hypertonicity, F13  
  effects of hepatocyte growth factor, F271  
distribution of endothelin-1 binding in rat in vivo, F845  
epithelial  
  microtubule network: effect of ischemia and reperfusion, F971  
  in polycystic kidney: abnormal cell-matrix interactions, F1082  
glomerular  
  epithelial localization of natriuretic peptide receptor subtypes, F318  
  epithelial plasminogen/plasmin receptors, F303  
juxtaglomerular  
  calcium sensitivity: role in renin secretion, F1076  
mesangial  
  ambient  $Cl^-$  and nitric oxide release, F190  
  anti-activator protein-1 activity of all-trans retinoic acid, F805  
  bradykinin-induced contraction via  $B_2$  receptor type, F871  
  glucose-induced upregulation of myo-inositol transport, F459  
  IL-1 $\beta$  and cyclooxygenase II mRNA stabilization, F504  
  increased glomerular macrophage TGF- $\beta$  expression during hypercholesterolemia, F937  
  mechanisms of thromboxane  $A_2$  receptor regulation, F467  
  morphine effect on gelatinolytic activity, F654  
  protein kinase C and glucose stimulation of collagen type IV gene expression, F632  
  role of tyrosine phosphorylation in mesangial thrombin effects, F528  
mitochondria of: calcium levels and pH in, F153  
papillary epithelial  
  Shaker-like  $K^+$  channels, F671  
tubular  
  recovery from mechanical injury, F257

tubular, cortical  
  epithelial cell integrins: subtypes and ligand specificities, F612  
tubular, proximal  
   $\beta_2$ -microglobulin cellular uptake pathway, F380  
   $Cl^-$  channels in: diverse modulations, F716  
  detachment: relation to F-actin damage and consequences for renal function, F888  
  phosphate secretion: membrane voltage and  $Ca^{2+}$  dependence, F624  
  sodium transport: effect of norepinephrine, F725  
  water and urea diffusive permeabilities, F709

### Kidney damage

endosomal fusion: energy transfer assays and evidence for superfusion, F1021  
glomerular: protection by angiotensin I-converting enzyme inhibitors: dissociation from antihypertensive effect, F1034

### Kidney disease

see also Diabetes  
chronic  
  cytokines and L-arginine in (review), F197  
chronic allograft rejection: physiological and structural features, F1102  
glomerulonephritis  
  arginine metabolism: interaction between nitric oxide synthase and arginase, F646  
polycystic  
  abnormalities in cell-matrix interactions, F1082  
  and coordinate regulation of 11 $\beta$ -hydroxysteroid dehydrogenase and *Kc* 6 genes in *cpk* mouse, F791  
  role of arginine (review), F331

### Kidney failure

chronic  
  abnormal leucine-induced insulin secretion in, F853  
  ischemia-induced  
    role of adhesion molecules CD11a and CD11b, F1052  
  potentiated intestinal expression of 1,25(OH) $_2$ D $_3$ -induced 24-hydroxylase gene, F926  
  proteinuria and impaired glomerular permselectivity in FHH spontaneously hypertensive rat, F917  
  radiocontrast-induced  
    role of nitric oxide, F374

## L

### Leukocyte adhesion and rolling

role of adhesion molecules CD11a and CD11b in ischemic renal failure, F1052

### Lipopolysaccharide, see Endotoxin

### Lithium

improved analysis of picomole quantities in biological fluids, F695  
transport by renal proximal tubule, F86, F695

### Liver

possible role in acid-base homeostasis: acidosis-inhibited hepatic amino acid transport, F1015

### Losartan

renal effect during sodium restriction, F281  
and renin-angiotensin role in renal effects of adenosine  $A_1$  receptor blockade, F783

## M

### Macrophages

increased TGF- $\beta$  expression during hypercholesterolemia, F937

### Madin-Darby canine kidney cells

$\alpha$ -adrenergic receptor subtype expression and distribution, F347  
 $Ba^{2+}$ -sensitive  $K^+$  channels in basal membranes, F1007

### Maturation

intercalated-like and principal-like cells in mesonephric kidney, F987  
of proximal tubule  $Na^+/H^+$  antiporter from fetus to newborn, F537

### Mechanosensitive channels

in osteoblast-like cells  
  effect of chronic intermittent loading, F909

### Membranes

basolateral and brush-border  
  of renal cortex: tyrosine protein kinase activity in, F415  
  of renal epithelium: angiotensin II receptors, F776  
brush-border  
  and regulation of nitrobenzylthioinosine-sensitive adenosine uptake by kidney cells, F758  
  of renal cortex: tyrosine protein kinase activity in, F415  
  of renal epithelium: angiotensin II receptors, F776  
  renal sodium-phosphate cotransporter: and dietary P: adaptation mechanisms, F900

### Mesonephros

collecting tubule  
  hydrogen and bicarbonate transport in intercalated-like cells, F979  
  intercalated-like and principal-like cells, F987

### c-met (hepatocyte growth factor receptor)

expression in renal hypertrophy and hyperplasia, F231

### Methodologies

access to basolateral membranes in confluent MDCK monolayers, F1007  
analysis of picomole quantities of lithium, Na, and K in biological fluids, F695  
for isolation of rat renal microvessels and mRNA localization, F497  
for studies of renal endosomal fusion energy transfer assays by fluorometry and flow cytometry, F1021

### Microcirculation

kidney  
  intrarenal oxygenation determinants: effects of diuretics, F1059  
  intrarenal oxygenation determinants: hemodynamic effects, F1063

### Microdialysis

for estimating renal interstitial purines, F174

### $\beta_2$ -Microglobulin

uptake pathway in proximal tubule cells, F380

**Microtubules**

in renal epithelial cells  
effect of ischemia and reperfusion, F971

**Mineralocorticoids**

inner medullary collecting duct resistance  
induction by TGF- $\beta$ 1, F767  
and sodium transport in immature cortical collecting duct, F49

**Mitochondria**

metabolism  
effect of calcium on, F153

**Modeling in physiology**

nonlinear modeling of myogenic mechanism and tubuloglomerular feedback using Volterra-Wiener kernels, F160

**Models**

for  $\alpha_2$ -adrenergic receptors: MDCK cells, F347  
for glomerular function: cell-free and erythrocyte-perfused isolated kidney, F423  
mathematical  
for proximal tubule: ammonia transport in, F237

**Morphine**

effect on mesangial matrix metalloproteinase, F654

**Muscle, smooth**

vascular  
altered expression of insulin-responsive glucose transporter GLUT4 in diabetes, F816

**myo-Inositol**

transport upregulation in mesangial cells, F459

**N****Natriuresis**

from calcium channel blockers  
role of renal dopamine D<sub>1</sub> receptors, F965

**Natriuretic peptide**

C-type  
mRNA localization in kidney, F215

**Nephrotic syndrome**

increased glomerular macrophage  
TGF- $\beta$  expression during hypercholesterolemia, F937

**Nephrotoxins**

F-actin damage and detachment of proximal tubular cells: consequences for renal function, F888

**Newborn**

maturation of proximal tubule Na<sup>+</sup>/H<sup>+</sup> antiporter, F537

**Nitric oxide**

in acute renal failure  
radiocontrast-induced, F374  
inhibition of H<sup>+</sup>-ATPase activity in cortical collecting duct, F509  
release by mesangial cells  
effect of ambient Cl<sup>-</sup>, F190  
in renal disease, F197  
and renal hemodynamic responses to calcitonin gene-related peptide, F839  
role in renal tubuloglomerular feedback mechanism, F606

**Nitric oxide synthase**

inducible  
in kidney: mRNA localization by in situ hybridization, F748

and proton transport in collecting duct intercalated cells, F509

**inhibition**

effects on renin release and renal vasoconstriction, F798  
interaction with arginase in experimental glomerulonephritis, F646  
possible role in renal vasoconstriction from cyclosporin, F443  
in renal epithelium, F296

**Nonlinear modeling in renal autoregulation, F160****Nonsteroidal antiinflammatory drugs**

effect on PGE<sub>2</sub>-inhibited Na-K-ATPase, F94

**Norepinephrine**

effect on sodium transport in kidney proximal tubule cells, F725

**Nucleotide P<sub>2u</sub> receptor**

in cortical collecting tubule  
evidence for, F289

**Nucleotide receptors**

in medullary collecting ducts  
role in nucleotide-mediated [Ca<sup>2+</sup>]<sub>i</sub> increase, F998

**O****Ornithine cycle**

possible role in acid-base homeostasis: acidosis-inhibited hepatic amino acid transport, F1015

**Osmolytes**

intracellular  
response to hypertonicity, F13  
organic  
and HSP-70 expression, F28  
in renal medulla: effect of vasopressin antagonists, F146  
in renal medulla: impaired accumulation in potassium depletion, F139

**Osmotic stress**

effect on HSP-70 expression, F28

**Osteoblast-like cells**

mechanosensitive channels in  
effect of chronic intermittent loading, F909

**Oxygenation**

intrarenal  
determinants: effects of diuretics, F1059  
determinants: hemodynamic effects, F1063

**P****Pancreas**

islets  
and abnormal leucine-induced insulin secretion in chronic renal failure, F853

**Parathyroid hormone**

and abnormal leucine-induced insulin secretion in chronic renal failure, F853

**Parietal peritoneum**

osmotic barrier, F861

**Peritoneum**

parietal  
osmotic barrier, F861

**pH**

extracellular  
effect on actin cytoskeleton during ATP depletion, F566

**Phosphate**

inorganic  
dietary: adaptation of renal P<sub>i</sub> transporter: cellular mechanisms, F900

**Phosphate transporter**

renal  
adaptation to dietary P<sub>i</sub> changes: cellular mechanisms, F900

**Phosphates**

inorganic  
renal transepithelial secretion: membrane voltage and Ca<sup>2+</sup> dependence, F624

**Phosphoenolpyruvate carboxykinase**

renal distribution during NH<sub>4</sub>Cl acidosis, F400

**Phospholipase A<sub>2</sub>**

role in bradykinin-induced mesangial cell contraction, F871

**Phospholipase C**

mesangial activation by thrombin and tyrosine phosphorylation, F528  
role in bradykinin-induced mesangial cell contraction, F871

**Phosphorylation, see Tyrosine phosphorylation****Plasminogen/plasmin receptors**

on glomerular epithelial cells, F303

**Polycystic kidney disease**

abnormalities in cell-matrix interactions, F1082  
and coordinate regulation of 11 $\beta$ -hydroxysteroid dehydrogenase and *Ke 6* genes in *cpk* mouse, F791

**Polyol pathway**

role in upregulation of mesangial myo-inositol transport, F459

**Potassium**

see also **Sodium-potassium; Sodium-potassium-chloride**

**depletion**

impaired medullary osmolyte accumulation in, F139  
improved analysis of picomole quantities in biological fluids, F695

**load**

and tubuloglomerular feedback, F223  
and regulation of renin system (review), F1

**transport**

in proximal convoluted tubule, F695  
in Henle's thick ascending limb, F121

**Potassium channels**

in basal membrane of Madin-Darby canine kidney cell, F1007

in cortical collecting duct

effect of actin cytoskeleton on, F592

in inner medullary collecting duct cells

ATP-sensitive, F489

in proximal tubule

and response to Na<sup>+</sup>-coupled solute

cotransport, F479

and regulation of renin system (review), F1

**Shaker-like**

in renal papillary epithelial cells, F671

in thick ascending limb

two types, F599

**Prostaglandins****E<sub>2</sub>**

inhibition of Na-K-ATPase: effect of cyclooxygenase inhibitors, F94

and immature cortical collecting duct

response to arginine vasopressin, F44

**Protein kinase C**

and immature cortical collecting duct response to arginine vasopressin, F44

role in bradykinin-induced mesangial cell contraction, F871

stimulation of collagen type IV gene expression in mesangial cell, F632

**Protein kinases**

mitogen-activated

hormonal regulation in medullary collecting tubule, F366

**Protein tyrosine kinase, see Tyrosine protein kinase****Proteins**

dietary

restriction in renal disease, F197

low molecular weight

uptake by proximal tubule cells, F380

**Proteinuria**

and glomerular permselectivity in FHH spontaneously hypertensive rat, F917

prevention by angiotensin I-converting enzyme inhibitors: dissociation from antihypertensive effect, F1034

**Proton pumps**

role in collecting duct acidification, F450

**Purines**

renal interstitial: estimation by microdialysis, F174

**R****Radiocontrast material**

acute renal failure from: role of nitric oxide, F374

**Renal epidermal growth factor**

effect of growth hormone on, F208

receptor activity in developing fetal kidney, F428

**Renal plasma flow**

effect of amino acid infusion in humans: dose-response study, F703

**Renin**

renal distribution pattern, and interneuron functional coupling, F931

secretion

from isolated kidney: differential effects of extracellular anions, F1076

nitric oxide synthesis inhibition effects on, F798

**Renin-angiotensin system**

see also **Angiotensin entries**

and adenosine A<sub>1</sub> receptor blockade effects on glomerular hemodynamics, F783

hydrogen and potassium regulation of (review), F1

and renal adaptation to sodium restriction, F281

**Respiratory acid-base imbalance**

effect on renal transport enzymes, F390

**Respiratory acidosis**

effect on acidification in cortical collecting duct, F114

**Retinoic acid**

all-trans: anti-activator protein-1 activity in glomerular mesangial cells, F805

**Reviews, editorial**

cytokines and L-arginine in renal injury and repair, F197

hydrogen and potassium roles in

(pro)renin processing and secretion, F1

role of arginine in health and in renal disease, F331

**S****Sinorphan**

effects on atrial natriuretic peptide, F20

**Sodium**

see also **Natriuresis**

dietary

effect on nitric oxide synthesis inhibition of renin release and renal vasoconstriction, F798

restriction and renin-angiotensin system, F281

improved analysis of picomole quantities in biological fluids, F695

transport

in cortical collecting duct: ontogeny of, F49

electrogenic: *Shaker*-like K<sup>+</sup> channels in renal papillary cell, F671

in kidney proximal tubule cells: effect of norepinephrine, F725

in proximal convoluted tubule, F695

renal: aldosterone action on: resistance induced by TGF- $\beta$ 1, F767

**Sodium/calcium exchanger**

human renal isoform: expression in insect cells, F70

**Sodium chloride**

insulin-stimulated transport, in Henle's thick ascending limb, F265

**Sodium/hydrogen antiporter**

isoforms 1 and 3: renal effects of glucocorticoids, F437

in proximal tubule: maturation from fetus to newborn, F537

**Sodium/hydrogen exchange**

in kidney proximal tubule cells: effect of norepinephrine, F725

**Sodium-phosphate cotransporter**

renal: adaptation to dietary P<sub>i</sub> changes: cellular mechanisms, F900

**Sodium-potassium-ATPase**

inhibition by PGE<sub>2</sub>: effect of cyclooxygenase inhibitors, F94

in innermedullary collecting duct: role in NH<sub>4</sub><sup>+</sup> transport, F660

in proximal convoluted tubule: effect of insulin, F55

in proximal tubule

effect of norepinephrine, F725

regulation by G proteins, in normal vs.

spontaneously hypertensive rat, F1069

regeneration of polarity after renal ischemia, F75

**Sodium-potassium-chloride cotransporter**

in proximal tubule cells, F63

**Sodium-potassium cotransport system**

analysis in flounder, F311

**Sodium transport**

in cortical collecting duct: salt-resistant vs. salt-sensitive and Sprague-Dawley rats, F583

role of nonselective cation channels in inner medullary collecting duct, F558

**Solutes**

organic: Na<sup>+</sup>-Cl<sup>-</sup> cotransporter: renal osmotic stress-induced, F688

**Steroid metabolic defect**

11 $\beta$ -hydroxysteroid dehydrogenase and *Ke* 6 genes, and renal cystogenesis, F791

**Stress**

heat and osmotic: effect on HSP-70 and renal betaine transporter gene (GBT-1), F28

osmotic: induction of renal Na<sup>+</sup>-Cl<sup>-</sup>-organic solute cotransporter, F688

**Stretch-activated channels**

in osteoblast-like cells: effect of chronic intermittent loading, F909

**T****Thermal stress, see Heat shock proteins and under Stress****Thrombin**

effects in mesangial cells: role of tyrosine phosphorylation, F528

**Thromboxane A<sub>2</sub>**

and renal vasoconstriction from cyclosporin, vs. angiotensin II and endothelin-A, F443

**Thromboxane A<sub>2</sub> receptor**

regulation in glomerular mesangial cells, F467

**Toad bladder**

vasopressin-induced water-channel transport in, and endosomal acidification, F106

**Transplantation**

kidney: chronic rejection: physiological and structural features, F1102

**Tyrosine kinase**

of epidermal growth factor receptor: activity in fetal kidney, F428

**Tyrosine phosphorylation**

role in thrombin effects in mesangial cells, F528

**Tyrosine protein kinase**

activity in brush-border and basolateral membranes of renal cortex, F415

**U****Urea**

transport: water and urea diffusive permeabilities in proximal tubule cells, F709

**Urea cycle**

possible role in acid-base homeostasis: acidosis-inhibited hepatic amino acid transport, F1015

**Urine**

acidification in elasmobranchs: possible role of H<sup>+</sup>-K<sup>+</sup>-ATPase, F639

**V****Vasoconstriction**

renal

from cyclosporin A: possible mechanisms, F443

nitric oxide synthesis inhibition effects: changes with sodium intake, F798

**Vasopressin**

activation of chloride conductance in cortical collecting duct cells, F831

cAMP-dependent effects on [Ca<sup>2+</sup>]<sub>i</sub> in cortical collecting duct, F354

water-channel endocytosis from, and  
endosomal acidification, F106

**Vasopressin antagonists**

*see also* **Arginine vasopressin**  
effect on osmolytes in renal medulla,  
F146

**Vitamin D<sub>3</sub>**

1,25(OH)<sub>2</sub>: metabolism in kidney failure:  
24-hydroxylase gene expression in  
intestine, F926

**Volterra-Wiener kernels**

use in nonlinear modeling, F160

**W****Water****Water channels**

AQP-CD (WCH-CD) channel in renal  
collecting duct: function and cellular  
location, F573  
selectivity in proximal tubule cells, F709

vasopressin-induced endocytosis, and  
endosomal acidification, F106

**Water transport**

in cortical collecting ducts of salt-resis-  
tant vs. salt-sensitive and Sprague-  
Dawley rats, F583  
in proximal tubule cells: water and urea  
diffusive permeabilities, F709

**Wiener-Volterra kernels**

use in nonlinear modeling, F160



# Author Index to Volume 36

## A

Abanilla, F., F1052  
 Abbate, M., F971  
 Abboud, H. E., F528  
 Abdunour-Nakhoul, S., F725  
 Abe, K., F265  
 Agmon, Y., F1059  
 Ahn, K. Y., F748  
 Alcorn, D., F845  
 Alfrey, A. C., F86  
 Alhenc-Gelas, F., F798  
 Alpern, R. J., F437  
 Amendt-Raduege, A. M., F1021  
 Amuchastegui, C. S., F839  
 Anderson, R. J., F257  
 Anderson, S., F35  
 Arar, M., F900  
 Arbeit, L. A., F660  
 Ardito, T., F75  
 Armitage, F. E., F450  
 Artuso, A., F931  
 Asico, L. D., F965  
 Atherton, J. C., F695  
 Aziz, N., F791

## B

Baranowski, R. L., F174  
 Barber, L. E., F624  
 Barrett, P. Q., F183  
 Barros, E. J. G., F271  
 Bascands, J.-L., F871  
 Baum, M., F437  
 Beach, R. E., F1069  
 Becquemont, L., F303  
 Béliveau, R., F415  
 Berl, T., F366  
 Bertani, T., F1034  
 Biber, J., F900  
 Bindels, R. J. M., F63  
 Biswas, P., F528  
 Blanco, J., F758  
 Blantz, R. C., F423  
 Blommaert, P. J. E., F1015  
 Blum, M., F374  
 Boer, P., F223  
 Boisvert, D. M., F737  
 Bompart, G., F871  
 Bonilla-Felix, M., F44  
 Bonventre, J. V., F971, F1052  
 Boon, L., F1015  
 Border, W. A., F197  
 Bouriquet, N., F931  
 Braam, B., F223  
 Breckon, R., F257  
 Brenner, B. M., F791, F917  
 Brezis, M., F1059, F1063  
 Briggs, J. P., F816  
 Brion, L. P., F987  
 Broekelmann, T. J., F612  
 Brosius, F. C., III, F816  
 Brown, D., F971  
 Brunori, M., F679  
 Brunskill, N. J., F944  
 Buckman, S., F737  
 Burg, M. B., F28

## C

Cabili, S., F374  
 Canela, E. I., F758

Cantley, L. G., F231, F271  
 Carmines, P. K., F99, F249, F879  
 Carranza, M. L., F55  
 Casellas, D., F931  
 Casley, D., F845  
 Cassola, A., F592  
 Castellino, P., F703  
 Cattell, V., F646  
 Champigneulle, A., F354  
 Charron, M. J., F816  
 Chatziliadis, A. A., F459  
 Chen, Y.-M., F160  
 Chon, K. H., F160  
 Christensen, P., F86, F695  
 Ciruela, F., F758  
 Clarke, D. M., F70  
 Clausen, C., F479  
 Coffman, T. M., F467  
 Cohen, M., F380  
 Cohen-Luria, R., F94  
 Conger, J. D., F443  
 Cook, H. T., F646  
 Custer, M., F900  
 Cybulsky, A. V., F428

## D

Dagan, D., F716  
 Dahl, R., F380  
 Danziger, R., F296  
 Daphna-Iken, D., F504  
 Darvish, N., F716  
 Das, M., F612  
 Day, J. P., F695  
 Dean, R., F845  
 DeBoer, P. A. J., F400  
 Deen, W. M., F917  
 DeFronzo, R. A., F703  
 Delpire, E., F688  
 Diamond, J. R., F937  
 Dietz, J., F1052  
 DiGiovanni, S. R., F407  
 Ding, G., F937  
 Douglas, J. G., F776  
 Drewnowska, K., F153  
 DuBose, T. D., Jr., F489, F558  
 Dulin, N. O., F776  
 Duncan, R. L., F909  
 Dupont, M., F281, F931

## E

Ecelbarger, C. A., F998  
 Echevarria, M., F709  
 Eiam-ong, S., F390  
 Eisner, G. M., F965  
 Emma, F., F106  
 England, R., F816  
 Epstein, F. H., F1059, F1063  
 Ernsberger, P., F776

## F

Fadda, G. Z., F853  
 Faletto, D., F231  
 Falk, S., F380  
 Favre, H., F55  
 Fejes-Tóth, G., F831  
 Felder, R. A., F965  
 Feng, L., F318  
 Féraillé, E., F55

Fern, R. J., F183  
 Ferraris, J. D., F28  
 Fine, A. D., F639  
 Fish, E. M., F566  
 Flessner, M. F., F861  
 Fraenkel, M. B., F825  
 Franco, R., F758  
 Fray, J. C. S., F1  
 Frederiksen, O., F86  
 Frye, J., F937  
 Fujiwara, Y., F146  
 Fumo, P., F632  
 Furukawa, T., F573  
 Furuyama, T., F926  
 Fushimi, K., F573

## G

Gabbai, F. B., F423  
 Gandhi, M., F271  
 García-Pérez, A., F28  
 Gardes, J., F798  
 Garg, L. C., F509  
 Gentry, D. L., F437  
 Ghosh Choudhury, G., F528  
 Gibson, C. C., F998  
 Giebisch, G., F592  
 Giordano, M., F703  
 Girolami, J.-P., F871  
 Goligorsky, M. S., F190  
 Gonzalez, E., F709  
 Gonzalez, M. F., F798  
 Goodyer, P. R., F428  
 Götz, K.-H., F1076  
 Grandaliano, G., F528  
 Grosskopf, I., F374  
 Grunewald, J. M., F13  
 Grunewald, R. W., F13  
 Grünfeld, J.-P., F20  
 Guillery, E. N., F537  
 Gullans, S. R., F688  
 Gurich, R. W., F1069  
 Gutierrez, A., F709  
 Guzman, N. J., F509

## H

Hamann, M., F1076  
 Hammerman, M. R., F208  
 Hammond, T. G., F516, F1021  
 Hammond, W., F257  
 Hannedouche, T., F20  
 Harris, H. W., F106  
 Harris, P. J., F1007  
 Harrison, V., F737  
 Harrison-Bernard, L. M., F249, F879  
 Hartog, A., F63  
 Hawk, C. T., F583  
 Hayashi, M., F573  
 He, C.-J., F303  
 Healy, D. P., F546  
 Heasley, L. E., F366  
 Heyman, S. N., F1063  
 Hino, M., F926  
 Hirose, S., F318  
 Hogarth, L., F296  
 Holstein-Rathlou, N.-H., F86, F160  
 Hostetter, T. H., F1102  
 Hruska, K. A., F909

Huang, L., F347  
 Husted, R. F., F671, F767

## I

Iacovitti, M., F737  
 Iaina, A., F374  
 Ianni, L., F679  
 Igarashi, Y., F265  
 Ikeni, A., F20  
 Imai, M., F121  
 Imai, Y., F265  
 Imanishi, Y., F926  
 Imberti, O., F1034  
 Imbert-Teboul, M., F354  
 Inaba, M., F926  
 Inscho, E. W., F879  
 Ishibashi, K., F573  
 Ishimura, E., F926  
 Issekutz, T. B., F1052  
 Ito, O., F265

## J

Jackson, E. K., F783  
 Jansen, A., F646  
 Jaspers, J. P. T. G., F888  
 Joannidis, M., F231  
 John-Phillip, C., F44  
 Jose, P. A., F965  
 Jover, B., F281  
 Junaid, A., F1102

## K

Kaissling, B., F900  
 Karl, I. E., F331  
 Karniski, L. P., F537  
 Kashgarian, M., F75  
 Kawasaki, K., F318  
 Kawasaki, M., F573  
 Kemm, R. E., F1007  
 Ketteler, M., F197  
 Khang, S., F423  
 Khuri, R. N., F725  
 Kibble, J. D., F695  
 Kihara, I., F318, F573  
 Kim, G. E., F443  
 King, J. A., F1  
 Kinne, R. K. H., F13, F311  
 Klahr, S., F331, F944  
 Knepper, M. A., F407, F998  
 Koger, L. M., F660  
 Kojima, R., F688  
 Kondo, Y., F265  
 Kone, B. C., F748  
 Koomans, H. A., F223  
 Koseki, C., F121  
 Koyama, H., F926  
 Kren, S. M., F1102  
 Krivenko, Y., F190  
 Kudo, K., F265  
 Kudo, L. H., F583  
 Kuncio, G. S., F632  
 Kurtz, A., F1076  
 Kurtzman, N. A., F390  
 Kuwahara, M., F573

## L

Laborde, K., F20  
 Lacour, B., F20  
 Lacy, E. R., F639

Lamers, W. H., F400, F1015  
 Largen, P., F646  
 Laski, M. E., F390  
 Leite, M., F289  
 Levi, M., F900  
 Levine, D. Z., F737  
 Levo, Y., F374  
 Lewis, S., F646  
 Leyssac, P. P., F86  
 Liou, H.-H., F853  
 Liu, C. H., F612  
 Lluis, C., F758  
 Loo, T. W., F70  
 Lötscher, M., F900  
 Lu, H.-K., F183  
 Lu, M., F624  
 Luther, A. D., F407  
 Lynch, K. R., F347

## M

Maasdam, D. H., F888  
 Macconi, D., F1034  
 Madsen, K. M., F407, F509, F748, F1045  
 Maeda, Y., F998  
 Magrini, L., F1034  
 Majewski, R. R., F516, F1021  
 Malanchini, B., F1034  
 Mallol, J., F758  
 Mann, A. S., F75  
 Mannelli, M., F679  
 Marcus, R. G., F816  
 Maree, A., F374  
 Maren, T. H., F639  
 Marmarelis, V. Z., F160  
 Marsh, D. J., F160  
 Martinez, F., F20  
 Marumo, F., F215, F325, F573  
 Massry, S. G., F853  
 Mathews, M. S., F537  
 Matsumoto, T., F987  
 Matsushita, K., F767  
 Maxwell, M. M., F791  
 McConnell, E. L., F703  
 McDonald, J. A., F612  
 McTavish, A. J., F428  
 Meijer, A. J., F1015  
 Ménard, J., F798  
 Mendelsohn, F. A. O., F845  
 Mendiola, C. C., F1052  
 Middleton, J. P., F467  
 Miller, S. B., F208  
 Mimran, A., F281, F931  
 Misciglia, N., F679  
 Mizuno, T., F318  
 Mobilia, M. A., F497  
 Moe, O. W., F437  
 Mohaupt, M. G., F748  
 Molitoris, B. A., F380, F566  
 Moore, L. C., F190, F931  
 Moorman, A. F. M., F400  
 Moran, A., F94  
 Morii, H., F926  
 Morrison, A. R., F504  
 Morrissey, J. J., F944  
 Morrissey, L. W., F1021  
 Mougouris, T., F489, F558  
 Mulder, G. J., F888  
 Munger, K. A., F783  
 Murer, H., F311, F900  
 Muse, K. E., F516, F1021  
 Muto, S., F121

## N

Nadler, S. P., F737  
 Nafrialdi, N., F281  
 Nagelkerke, J. F., F888  
 Nagy, E., F831  
 Nakahama, H., F139, F146  
 Nakamoto, J. M., F497  
 Nakamura, T., F231  
 Nakanishi, T., F139, F146  
 Nakhoul, N. L., F725  
 Náray-Fejes-Tóth, A., F831  
 Nath, K. A., F1102  
 Natov, S., F20  
 Navar, L. G., F879  
 Nee, J. J., F183  
 New, A. R., F952  
 Nguyen, G., F303  
 Nguyen, K., F816  
 Nigam, S., F612  
 Nigam, S. K., F271  
 Nishizawa, Y., F926  
 Noble, N. A., F197  
 Nonoguchi, H., F215, F325

## O

Oberley, T. D., F516, F1021  
 O'Donnell, M., F646  
 Oh, H.-Y., F853  
 Ohishi, K., F99  
 Okusa, M. D., F347  
 Okwueze, M. I., F99  
 Oliver, J. D., III, F917  
 Omata, K., F265  
 Ono, S., F489, F558  
 Orita, Y., F146

## P

Pecher, C., F871  
 Peer, G., F374  
 Pelayo, J. C., F497  
 Peraldi, M.-N., F303  
 Perico, N., F839  
 Persson, A. E. G., F606  
 Peters, E. M., F28  
 Peterson, O. W., F423  
 Potocnik, S. J., F825  
 Provoost, A. P., F917  
 Pruchno, C. J., F671  
 Puntorieri, S., F1034  
 Pupilli, C., F679

## R

Raat, N. J. H., F63  
 Rabb, H., F1052  
 Rakotoarivony, J., F871  
 Ramirez, G., F1052  
 Rasmussen, J., F208  
 Rauchman, M., F271  
 Raymond, J. R., F467  
 Reale, E., F639  
 Reaveley, D., F646  
 Remuzzi, A., F1034  
 Remuzzi, G., F839, F1034  
 Renfro, J. L., F624  
 Rennke, H. G., F35  
 Reyes, A. A., F331  
 Rimon, G., F94  
 Robillard, J. E., F537  
 Robinette, J. B., F443  
 Rogers, S. A., F208  
 Rondeau, E., F303

Rosenberg, M. E., F1102  
 Rosin, D. L., F347  
 Rouse, D., F289  
 Rousselot, M., F55

## S

Saba, S. R., F1052  
 Sabatini, S., F390  
 Sagar, S., F660  
 Saladini, D., F281  
 Sansom, S. C., F489, F558  
 Sasaki, S., F573  
 Satlin, L. M., F979  
 Sauer, H., F130  
 Savoia, C., F20  
 Sayós, J., F758  
 Schafer, J. A., F583  
 Schmitt, F., F20  
 Scholz, H., F1076  
 Schoolwerth, A. C., F153, F400, F1015

Schwartz, D., F374  
 Schwartz, G. J., F979, F987  
 Selli, C., F679  
 Senkfor, S. I., F366  
 Serban, I., F374  
 Serio, M., F679  
 Shalmi, M., F695  
 Sharma, K., F1094  
 Sheikh-Hamad, D., F28  
 Siegel, N. J., F75  
 Siga, E., F354  
 Simon, E. E., F612  
 Simons, J. L., F917  
 Simonson, M. S., F805  
 Singh, R., F497  
 Singhal, P. C., F660  
 Smogorzewski, M., F633  
 Smolka, A. J., F639  
 Song, L., F546  
 Sorbi, D., F660  
 Sorribas, V., F900  
 Spokes, K., F231  
 Sponsel, H. T., F257  
 Spurney, R. F., F467  
 Sraer, J.-D., F303  
 Srivastava, S. K., F504  
 Stokes, J. B., F671, F767  
 Strange, K., F106  
 Star, R. A., F296  
 Strasheim, A., F366  
 Suci, D. J., F776  
 Sugita, M., F139, F146  
 Suki, W. N., F289  
 Sundin, D. P., F380  
 Swenson, E. R., F639

## T

Tabei, K., F121  
 Tack, J. L., F871  
 Takagi, H., F926  
 Takahashi, N., F265  
 Takamitsu, Y., F139, F146  
 Takenaka, T., F879  
 Teitelbaum, I., F366  
 Terada, Y., F215, F325  
 Tetsuka, T., F504  
 Thorup, C., F606  
 Tinell, H., F130  
 Tisher, C. C., F509, F1045  
 Tjio, S., F497

Tojo, A., F509, F1045  
 Tomita, K., F215, F325  
 Tonidandel, W., F688  
 Tremblay, L., F415  
 Troy, J. L., F917  
 Troyanovskaya, M., F546  
 Tsujino, M., F325  
 Tsukahara, H., F190  
 Tsuruoka, S., F121

## U

Uchida, S., F573  
 Ujii, K., F296  
 Uyeda, N., F146

## V

Van Adelsberg, J., F1082  
 Van de Water, B., F888  
 Van Dop, C., F497  
 Vandorpe, D., F737  
 Van Goor, H., F937  
 Van Os, C. H., F63  
 Van Why, S. K., F75  
 Vari, R. C., F99  
 Vehaskari, V. M., F49  
 Verroust, P. J., F516  
 Volk, K. A., F671

## W

Wall, S. M., F660  
 Wang, W.-H., F592, F599  
 Wang, X. Y., F1007  
 Wasserman, J. C., F688  
 Wehner, F., F130  
 Wei, Y. Y., F347  
 Weill, A. E., F952  
 Weiner, I. D., F952  
 Weinstein, A. M., F237  
 Weinstein, S. W., F479  
 Werner, A., F311  
 Westenfelder, C., F174  
 Whiteside, C. I., F459  
 Whittembury, G., F709  
 Wilk, E., F546  
 Wilk, S., F546  
 Wilson, C. B., F318, F423  
 Winaver, J., F716  
 Wingo, C. S., F114, F450  
 Winitz, S., F366  
 Winkler, C. A., F987  
 Wintour, E. M., F825  
 Wollman, Y., F374

## Y

Yamada, Y., F146  
 Yamaguchi, I., F965  
 Yamamoto, T., F318, F573  
 Yamamura, Y., F146  
 Yamauchi, A., F146  
 Yanagisawa, M., F679  
 Yang, T., F215, F325  
 Yaoita, E., F318  
 Yasoshima, K., F979  
 Ye, M., F546  
 Yuen, J., F296

## Z

Zatz, R., F35  
 Zhou, X., F114  
 Zhuo, J., F845  
 Ziyadeh, F. N., F632, F1094

